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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,491	06/04/2007	Sean P. McCormack	COU.P.US0004	1930
	7590 03/25/201 NER GREIVE BOBA	EXAMINER		
FIRST NATIO	NAL TOWER FOURT		BALL, JOHN C	
106 S. MAIN STREET AKRON, OH 44308			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			03/25/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/591,491	MCCORMACK ET AL.			
		Examiner	Art Unit			
		J. CHRISTOPHER BALL	17 <b>9</b> 5			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
	Despensive to communication(s) filed on 0.4 k	uno 2007				
	Responsive to communication(s) filed on <u>04 Ju</u>					
2a)∐	<i>,</i> —	action is non-final.	accution as to the	o monito io		
3)∟	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under E	ex parte Quayle, 1935 C.D. 11, 45	os O.G. 213.			
Disposit	ion of Claims					
4) Claim(s) See Continuation Sheet is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) See Continuation Sheet are subject to restriction and/or election requirement.						
Applicat	ion Papers					
9)	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acceptable acc	epted or b) $\square$ objected to by the E	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority <b>(</b>	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachmen	ıt(s)					
_	ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite			
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5)  Notice of Informal P.	atent Application			

Continuation of Disposition of Claims: Claims pending in the application are 1-3,6,8,9,11-19,21,22,24-26,29-33,36,37,39-46,49-57,61-65,68 and 71-76.

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 1-3,6,8,9,11-19,21,22,24-26,29-33,36,37,39-46,49-57,61-65,68 and 71-76.

## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, 6, 24, 26, 29-33, 36, 37, 40, 41, 43-46, 49, and 54-57, drawn to an electrode for use in an electrochemical sensor.

Group II, claim(s) 8, 9, and 11-19, drawn to a pH sensor.

Group III, claim(s) 21, 22, 25, 39, and 50-53, drawn to a method of preparing an electrode.

Group IV, claim(s) 62-65, 68, and 71-76, drawn to a method of modifying carbon, a composition resulting from modifying carbon, and an agglomerate of modified carbon.

2. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II claims as a technical feature a counter electrode, not claimed in any other group. Group III claims as a technical feature derivatisation via physical adsorption, not claimed in any other group. Group I claims as a technical feature, an electrode which is not claimed in Group IV.

3. A telephone call was made to Mr. Rodney Skoglund on March 23, 2010, to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. CHRISTOPHER BALL whose telephone number is

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(571)270-5119. The examiner can normally be reached on Monday through Thursday, 9 am to 5 pm Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nam X Nguyen/ Supervisory Patent Examiner, Art Unit 1753

JCB 03/23/2010